

This listing of claims will replace all prior versions, and listings, of claims in the application: **Listing of Claims:**

1. (Currently Amended) An apparatus comprising

a plurality of grounded metal plates, each with conductive layers each conductive layer having a plurality of apertures arranged about as a matrix of columns and rows apertures,

a plurality of antenna feed mechanisms mechanism layers disposed between the plates conductive layers, each including

— a plurality of excitation probes about aligned with said the apertures for forming antenna radiating elements;

— a metal plate disposed adjacent the grounded plates, which together form a plurality of antenna packages containing two orthogonal and arranged as subarrays with alternating polarizations, the subarrays of a first antenna feed mechanism layer being juxtaposed with subarrays of a second antenna feed mechanism layer with different polarizations,

the antenna packages apparatus further including an active device layer providing amplification circuit for amplifying of the received signals and being coupled with the groups of radiating elements through a combining block for combining received signals, wherein antenna feed mechanisms are arranged as subarrays and the antenna output is connected the received signals being coupled to a twin Low Noise Block (LNB).

2. (Currently Amended) The apparatus of Claim 1, including insulating layers including a low-loss dielectric material disposed between the grounded metal plates conductive layers and the antenna feed mechanisms mechanism layers.

3. (Currently Amended) The apparatus of Claim 1 wherein the comprising two antenna feed mechanisms are mechanism layers, each feed mechanism layer divided to sixteen eight subarrays, wherein pairs of them subarrays are identical and each pair forms one quarter of the antenna feed mechanism layer.

4. (Currently Amended) The apparatus of Claim 3, wherein neighboring adjacent antenna quarters are rotated at 90° angle to each other.

5. (Currently Amended) The apparatus of Claim 1, wherein the antenna feed mechanism layer includes a central conductor of a strip line and a metal sheet with a thickness of 0.1 to 0.3 mm, formed using thin metal sheet etching.

6. (Previously Presented) The apparatus of Claim 5, wherein the metal sheet forms supporting frames and elements for mechanical connection.

7. (Previously Presented) The apparatus of Claim 6, wherein the elements for mechanical connection are accomplished as RF decoupling circuits.

8. (Currently Amended) The apparatus of Claim 7, wherein each of the radiating elements have apertures has an octagonal shape with two parallel long sides and two shorter parallel sides connecting each one of the corresponding ends of the long sides with the respective ends of each

one of the shorter sides.

9. (Currently Amended) The apparatus of Claim 1, wherein one of the metal plates includes openings and conductive layers is thicker than the rest of the other conductive layers metal plates in the package.

10. (Canceled)

11. (New) A method of configuring a satellite antenna comprising disposing a plurality of conductive layers having apertures proximate to a plurality of antenna feed mechanism layers, arranging the plurality of conductive layers and feed mechanism layers in alternating layers, configuring the antenna feed mechanisms as a plurality of subarrays with different polarizations in a layer, juxtaposing the subarrays of a first antenna feed mechanism with the subarrays of a second feed mechanism having a different polarization.

12. (New) A method of configuring a satellite antenna comprising disposing a plurality of conductive layers having apertures proximate to a plurality of antenna feed mechanism layers, arranging the plurality of conductive layers and feed mechanism layers in alternating layers, configuring the antenna feed mechanism layers to have tapered radiating elements.